

## Appendix A References

### A-1. Required Publications

**Code of Federal Regulations, 29 Part 1900-1910, July 1992**

Occupational Safety and Health Administration Guides

**TM 5-809-10**

Seismic Design for Buildings

**TM 5-811-1**

Electric Power Supply and Distribution

**ER 25-345-1**

Systems Operation and Maintenance Documentation

**ER 37-2-10**

Accounting and Reporting Civil Works Activities

**ER 1110-2-109**

Hydroelectric Design Center

**ER 1110-2-1150**

Engineering After Feasibility Studies

**ER 1110-2-1403**

Hydraulic and Hydrologic Studies by Corps Separate Field Operating Activities and Others

**EM 385-1-1**

Safety and Health Requirements Manual

**EM 1110-2-3102**

General Principles of Pumping Station Design and Layout

**EM 1110-2-3104**

Structural and Architectural Design of Pumping Stations

**ETL 1110-2-313**

Hydraulic Design Guidance for Rectangular Sumps of Small Pumping Stations with Vertical Pumps and Ponded Approaches

**ETL 1110-2-327**

Geometry Limitations for the Formed Suction Intake

**CEGS 16415**

Guide Specifications for Electric Work Interior

**CW 15160**

Guide Specifications for Vertical Pumps, Axial and Mixed Flow Impeller Type

**CW 15170**

Guide Specifications for Electric Motors 3-Phase Vertical Induction Type (for Floor-Control Pumping Stations)

**CW 15171**

Guide Specifications for Electric Motors 3-Phase Vertical Synchronous Type 1500 Horsepower and Above (for Flood-Control Pumping Stations)

**CW 16120**

Guide Specifications for Insulated Wire and Cable (for Hydraulic Structures)

**NFPA-70**

National Electric Code

**American Water Works Association 1989**

American Water Works Association. 1989. "Steel Pipe and Installation Manual," M-11, 3rd ed., Denver, CO.

\* **Fletcher 1990**

Fletcher, R. P. 1990. "Formed Suction Intake Approach Appurtenance Geometry," Technical Report HL-90-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**King and Brater 1963**

King, H. W., and Brater, E. 1963. Handbook of *Hydraulics*, 5th ed. McGraw-Hill, New York.

### A-2. Related Publications

*Section 1*

General

**EM 1110-2-3101**

Pumping Stations - Local Cooperation and General Considerations

**CW 16120**

Guide Specifications for Insulated Wire and Cable (for Hydraulic Structures)

**ANSI/ASME Y1.1 1972**

American Society of Mechanical Engineers. 1972. "Abbreviations for Use on Drawing and in Text," United Engineering Center, New York.

**ANSI/IEEE 85**

American National Standards Institute/Institute of Electrical and Electronics Engineers. "Test Procedures for Airborne Sound Measurements on Rotating Machinery," New York.

**ANSI/IEEE 100 1984**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1984. "Standard Dictionary of Electrical and Electronic Terms," New York.

**ANSI/IEEE 141 1986**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1986. "Recommended Practice for Electric Power Distribution for Industrial Plants (IEEE Red Book)," New York

**ANSI/IEEE 142 1986**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1986. "Recommended Practices for Grounding of Industrial and Commercial Power Systems (IEEE Green Book)," New York.

**ANSI/IEEE 242 1986**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1986. "Recommended Practices for Protection and Coordination of Industrial and Commercial Power Systems (IEEE Buff Book)," New York.

**ANSI/IEEE 339**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. "Power System Analysis," New York.

**ANSI/IEEE 399 1980**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1980. "Recommended Practices for Industrial and Commercial Power, Systems Analysis (IEEE Brown Book)," New York.

**ANSI/IEEE 466 1987**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1987. "Recommended Practices for Emergency and Standby Power for Industrial and Commercial Applications (IEEE Gold Book)," New York.

**ANSI/IEEE 493 1980**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1980. "Recommended Practices for the Design of Reliable Industrial and Commercial Power Systems (IEEE Gold Book)," New York.

**ANSI/IEEE Y32.9 1972**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1972. "Graphic Symbols for Electrical Wiring and Layout Diagrams Used in Architecture and Building Constructions, New York.

**ANSI Y32.2-1975/IEEE 325A 1986**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1986. "Standard Graphic Symbols for Electrical and Electronics Diagrams," New York.

**ANSI/IEEE C57.109 1985**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1985. "Guide for Transformer Through-Fault-Current Duration," New York.

**ANSI/IEEE C37.2 1991**

American National Standards Institute/Institute of Electrical and Electronics Engineering, Inc. 1991. "Standard Electrical Power System Device Function Numbers," New York.

**Beeman 1955**

Beeman, D., ed. 1955. *Industrial Power System Handbook*, General Electric Company, McGraw-Hill, New York.

**Diesel Engine Manufacturers Association 1972**

Diesel Engine Manufacturers Association. 1972. "Standard Practices for Low and Medium Speed Stationary Diesel and Gas Engines," 6th Ed, New York

**Fink and Beaty 1987**

Fink, D. B., and Beaty, H. W., eds. 1987. *Standard Handbook for Electrical Engineers*, 12th ed., McGraw-Hill, New York.

\*

**Harman and Allen 1987**

Harman, T. L., and Allen, C. E. 1987 *Guide to the National Electric Code*, 1987 ed., Prentiss-Hall, Englewood Cliffs, NJ.

**Karassik, Krutzsch, Fraser, and Messina 1986**

Karassik, I. J., Krutzsch, W. C., Fraser, W. H., and Messina, J. P. 1986. *Pump Handbook*, 2nd ed., McGraw-Hill, New York.

**NEMA ICS 1 1988**

National Electrical Manufacturers Association. 1988. "General Standards for Industrial Control and Systems," Washington, D.C.

**NEMA ICS 2 1983**

National Electrical Manufacturers Association. 1983. "Standards for Industrial Control Devices, Controller and Assemblies," Washington, DC.

**NEMA ICS 2-324**

National Electrical Manufacturers Association. "A-C General Purpose High-Voltage Class E Controllers," Washington, D.C.

**NEMA ICS 2.3 1983**

National Electrical Manufacturers Association. 1983. "Instructions for the Handling, Installation, Operation, and Maintenance of Motor Control Centers," Washington, D.C.

**NEMA ICS 4 1983**

National Electrical Manufacturers Association. 1983. "Terminal Blocks for Industrial Use," Washington, D.C.

**NEMA ICS 6 1983**

National Electrical Manufacturers Association. 1983. "Enclosures for Industrial Controls and Systems, through Rev. 3," Washington, D.C.

**NEMA MG-1 1991**

National Electrical Manufacturers Association. 1991. "Motors and Generators," Washington, D.C.

**Smeaton 1977**

Smeaton, R. W., ed. 1977. *Switchgear and Control Systems Handbook*, 2nd ed., McGraw-Hill, New York.

**Smeaton 1987**

Smeaton, R. W., ed. 1987. *Motor Application and Maintenance Handbook*, 2nd ed., McGraw-Hill, New York.

**Square D Company 1986**

Square D Company. 1986. *Wiring Diagrams*, Publication No. SM 304, R10 DLGS, Milwaukee, WI.

**Square D Company 1991**

Square D Company. 1991. *Fundamentals of Motor Control*, Publication No. 0140BR9102, Milwaukee, WI.

**Square D Company 1979**

Square D Company. 1979. *Sorgel Dry-Type Transformers, 600 Volts and Below, with X/R Ratios for Short Circuit Calculations*, Milwaukee, WI.

**Stepanoff 1957**

Stepanoff, A. 1957. *Centrifugal and Axial Flow Pumps*, John Wiley, 2nd Ed., New York.

**Stevenson 1982**

Stevenson, W. D., Jr. 1982. *Elements of Power System Analysis*, 4th ed., McGraw-Hill, New York.

**Underwriters Laboratories, Inc. 1985**

Underwriters Laboratories, Inc. 1985. "UL Standard for Safety High Voltage Industrial Control Equipment," 3rd Ed., UL Standard 347, Research Triangle park, NC.

**Westinghouse Electric Corporation 1980**

Westinghouse Electric Corporation. 1980. *Electric Utility Engineering Reference Book-Distribution Systems*, East Pittsburgh, PA.

**Westinghouse Electric Corporation 1988**

Westinghouse Electric Corporation. 1988. *Westinghouse Synchronous Motors*, Westinghouse Publication No. B-9388-R. East Pittsburgh, PA.

**Westinghouse Electric Corporation 1982**

Westinghouse Electric Corporation. 1982. *Applied Protective Relaying*, Relay Instrument Division, East Pittsburgh, PA.

*Section 2*

Pump Station Model Study Reports on Test Conducted by U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Copeland 1982a**

Copeland, R. R. 1982a. *Pointe Coupee Pumping Station Siphon, Upper Pointe Coupee Loop Area, Louisiana*,

★

Technical Report HL-82-21, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Copeland 1982b**

Copeland, R. R. 1982b. *Mcgee Creek Pumping Station Siphon, Pike County, Illinois*, Technical Report HL-82-23, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Copeland 1984**

Copeland, R. R. 1984. *21st Street Pumping Station, Bettendorf, Iowa*, Technical Report HL-84-5, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1977**

Fletcher, B. P. 1977. *Flow Conditions at Pumping Station, Cairo, IL*, Technical Report HL-77-3, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1979a**

Fletcher, B. P. 1979a *Indian Creek Pumping Station, Mankato, Minnesota*, Technical Report HL-79-8, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1979b**

Fletcher, B. P. 1979b. *Luke Chicot Pumping Plant Outlet Structure, Arkansas*, Technical Report HL-79-10, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1979c**

Fletcher, B. P. 1979c. *Pumping Stations - Field Performance Investigation, Miscellaneous Paper HL-79-7*, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1980**

Fletcher, B. P. 1980. *Pumping Station for Teche--Vermillion Basins, Atchafalaya River, Louisiana*, Technical Report HL-80-6, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1982**

Fletcher, B. P. 1982. *Cache River Pumping Station South of Mound City, Illinois*, Technical Report HL-82-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1988a**

Fletcher, B. P. 1988a. *Cinque Hommes, Jones Cutoff, Bois Brule and Missouri Chute Pumping Station, Perry*

*County, IL*, Technical Report HL-88-13, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1988b**

Fletcher, B. P. 1988b. *Pond Creek Pumping Station, Southwestern Jefferson County, KY*, Technical Report HL-88-7, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1990a**

Fletcher, B. P. 1990a *Formed Suction Intake Approach Appurtenance Geometry*, Technical Report HL-90-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1990b**

Fletcher, B. P. 1990b. *Yazoo Backwater Pumping Station Sump, West Central Mississippi*, Technical Report HL-90-8, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher 1991**

Fletcher, B. P. 1991. *St. John's Bayou Pumping Station*, Technical Report HL-91-3, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher and Kirkpatrick 1991**

Fletcher, B. P. and Kirkpatrick, T. L. 1991. *Alton Pumping Station, Alton, Illinois*, Technical Report HL-91-9, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Fletcher, Triplett, and Grace 1988**

Fletcher, B. P., Triplett, G. A., and Grace, J. L., 1988. *Pumping Station Inflow - Discharge Hydraulics, Generalized Pump Sump Research Study*, Technical Report HL-88-2, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Leech 1990a**

Leech, J. R. 1990a. *New Madrid Pumping Station, Gravity Flow Conduit and Confluence, New Madrid Floodway, Missouri*, Technical Report HL-90-12, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Leech 1990b**

Leech, J. R. 1990b. *Yazoo Backwater Pumping Station, Discharge Outlet*, Technical Report HL-90-4 U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Maynord 1982**

Maynord, S. T. 1982. *Blue Waters Ditch Pumping Station, East St. Louis, Il.* Technical Report HL-82-13, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Rothwell 1981**

Rothwell, E.D. 1981. *Virden Creek Pumping Station and Gravity Flow Outlet Structure, Waterloo, Iowa*, Technical Report HL-81-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Triplett 1980**

Triplett G.R. 1980. *McMillan Pumping Station, Washington, D.C.*, Technical Report HL-80-19, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Triplett 1986**

Triplett G.R. 1986. *McGee Creek Pumping Station Sump, Pike County, Illinois*, Technical Report HL-86-8, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.